	From the INTERNATIONAL BUREAU			
PCT	₹n.			
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422)	EARLEY, Martin, G. Patent Attorney Services 26 Ellingworth Parade Box Hill, VIC 3128 AUSTRALIE			
Date of mailing (day month/year) 06 October 2000 (06.10.00)				
Applicant's or agent's file reference f295100	IMPORTANT NOTIFICATION			
International application No. PCT AU99:00751	International filing date (day month year) 10 September 1999 (10.09.99)			
The following indications appeared on record concerning X the applicant X the inventor	the agent the common representative			
Name and Address CARk EEK, Stephen, Robert 13 Hal Street Hawthorn, VIC 3123 Australia	State of Nationality State of Residence AU AU Telephone No.			
	Facsimile No. Teleprinter No.			
The International Bureau hereby notifies the applicant that the the person the name X the additional than the second the person the name the second the second the second the second that				
Name and Address CARKEEK, Stephen, Robert 106 Main Road Clayton South, VIC 3169 Australia	State of Nationality State of Residence AU AU Temption (10)			
3. Formula promotorio francialist.				
4. A copy of this notification has been sent to:				
the manufaction (See Fig. A.P. 11).	The second of the control of $\mathbf{X}^{(t)}$			
•1 chemin des Colombettes 1211 Geneva 20, Switzerland	en en Norden en Santa de la companya			

PCT

From the INTERNATIONAL BUREAU

NOTIFICATION OF THE RECORDING OF A CHANGE

EARLEY, Martin, G. 26 Ellingworth Parade Box Hill, VIC 3128 **AUSTRALIE**

Patent Attorney Services (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day month year) 06 October 2000 (06.10.00) Applicant's or agent's file reference IMPORTANT NOTIFICATION f295100 International filing date (day month year) international application No. 10 September 1999 (10.09.99) PCT AU99 00751 1. The following indications appeared on record concerning the common representative the inventor the agent State of Nationality State of Residence Name and Address ΑU ΑU JAYFIELD PTY. LTD. 2nd floor Telephone No. 181 Fitzroy Street St. Kilda, VIC 3182 Australia Facsimile No. Teleprinter No. 2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning. the nationality the residence the name the address the person State of Residence State of Nationality Name and Address ΑU ΑU JAYFIELD PTY. LTD. 613 St Kilda Road Telephone Na. Melbourne, VIC 3004 Australia Facsimile No. Teleprinter No. 3. Francis Land Atlant Charles in. 4. A copy of this notification has been cention X the recessing Office the designated Offices concerned the International Searching Authority the Alected Offices concerned X the everytional Proliminary Examinand A therit.

From the INTERNATIONAL BUREAU / / / /
*o
Assistant Commissioner for Patents United States Patent and Trademark
Office Box PCT Washington, D.C.20231
ETATS-UNIS D'AMERIQUE
mit: capacit, as elected Office
Applicant's or agent's file reference f295100
Priority date (day month year) 11 September 1998 (11.09.98)
Examining Authority on 04.04.00) ational Bureau on: 1. The or where Rise 32 appère, within the time, in 1.2 dec.

ra international bandaciol Versi 34 ichemin dés Colombettes 1211 Geneva 20 iSwitzerland

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference f295100	FOR FURTHER ACTION		ansmittal of International Search Report as well as, where applicable, item 5 below.			
International application No.	International filing date	e (day'month'year)	(Farliest) Priority Date (day month/year)			
PCT/AU 99/00751	10 September 1999)	11 September 1998			
Applicant JAYFIELD Pty Ltd et al						
This international search report has been pre Article 18. A copy is being transmitted to th		al Searching Authority a	and is transmitted to the applicant according to			
This international search report consists of a	total of 4 sheets.					
It is also accompanied by a	copy of each prior art doc	cument cited in this repo	ort.			
1. Basis of the report						
a. With regard to the language, the which it was filed, unless otherw			of the international application in the language in			
the international search w Authority (Rule 23.1(b)).	as carried out on the bas	is of a translation of the	international application furnished to this			
b. With regard to any nucleotide an carried out on the basis of the sec		ice disclosed in the inter	mational application, the international search was			
contained in the internation	onal application in writte	en form.				
filed together with the int	ernational application in	computer readable form	1.			
furnished subsequently to	this Authority in writter	ı form.				
furnished subsequently to	this Authority in compu	ter readable form.				
application as filed has be	the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.					
2. Certain claims were foun	d unsearchable (See Bo	ox I)				
3. Unity of invention is lack	ing (See Box II)					
4 With regard to the title, X	the text is approved as	s submitted by the applic	rant			
	the text has been estab	plished by this Authority	to read as follows:			
5 With regard to the abstract, X	the text is approved as	submitted by the applica	nnt			
		hin one month from the	2 38 2(b), by this Authority as it appears in Box III date of mailing of this international search report,			
1	sym to a gr					
	because the applicant fa	niled to suggest a figure				
	because this figure bett	er characterizes the invo	ention			

A. CLASSIFICATION OF SUBJECT MATTER

Int CI6:

A47G 23/03, B32B 33/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) $A47G\ 23/03,\ B32B\ 33/00$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched $AU:IPC\ AS\ ABOVE$

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C.	DOCUMENTS CONSIDERED TO BE RELEV	ANT				
Category*	Citation of document, with indication, when	Relevant to claim No.				
X	JP, 10211078 A, (YAMAURA SHIKI INSA Abstracts of Japan)	I				
Y	Y JP, 10085114 A, (YUUKOU SHOJI KK) 7 April 1998 (Patent Abstracts of Japan)					
Y EP, 107197 A2, (BECTON, DICKINSON a) 2 May 1984	1		
X	Further documents are listed in the continuation of Box C		X See patent family an	nnex		
* Speci	al categories of cited documents:	mpa.	later document published after the i	nternational filing date or		
	ment defining the general state of the art which is onsidered to be of particular relevance		priority date and not in conflict with understand the principle or theory u	the application but cited to		
"F" earlie	er application or patent but published on or after international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an			
or wh	ment which may throw doubts on priority claim(s) nich is cited to establish the publication date of her citation or other special reason (as specified)	"Y"	inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is			
	ment referring to an oral disclosure, use,		combined with one or more other such documents, such combination being obvious to a person skilled in the art			
"P" docur	ment published prior to the international filing but later than the priority date claimed	"&"				

AUSTRALIAN FATENT OFFICE FO BOX 200 WODEN ACT 2606 AUSTRALIA Talsimile To The Telescope

DAVID LEE

4 1/00

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU 99/00751

C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	GB 2229083 A, (John Quarmby & Son Ltd) 19 September 1990	1
A	GB 2054369 A, (ERNST SPIRIG) 18 February 1981	1
Α	US 4433823 A, (PEARSON) 28 February 1984	1
Α	CH 673010 A, (WERNLI) 31 January 1990	1
Α	JP 09047347 A, (OKUDA MARK KK) 18 February 1997 (Patent Abstracts of Japan)	1
Α	JP 57-46846 A, (TAKAO WADA) 17 March 1982	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/AU 99/00751

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information

Patent Doc	ument Cited in Search Report			Patent Family M	lember	
JP	10211078					
JP	10085114					
EP	107197	CA 1221282	DE 3372796	DK 4847/83	ES 526699	JP59095135 A2
		US 4515851				
GB	2229083					
GB	2054369					
US	4433823	CA 1171678	DE 3170179	EP 56897	JP57125713A2	
СН	673010					
JP	09047347					
JP	57-46846					
						END OF ANNE

REC'D	~2	0	JUIN 2260
WIP	Ó_	_	PCT

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

TEDNATION	IAL PRELIMINATION AND Rule	70)
MIEDIAL	(PCT Article 36 and Rule	10)
	(PUT ATTION	otitication of Transmittal of International
	See No.	otification of Transmittal of International Inary Examination Report (Form PCT/IPEA 416)
cant's or agent's file reference	TOD FURINCINA	Priority date (day mon
carris of 25	International filing date (day month year)	05/09/1997
/ 25609	- 1/00/1998	
national application No	ol classification and IPC	
T/DK98/00376 Trational Patent Classification (IPC) (or national diasses	
ornational Paleman 04D13/02		
		a. thority
	. 10	tional Preliminary Examining Authority
pplicant	STRI A/S	this International Preliminary Examining Authority
VELUX	examination report has been provided and a second provided and a s	,
1. This international preliminary	examination report has a solic place of the solic p	
and is transmitted	a total of 5 sheets, including this cover she	eet.
at consists of a	a total of 5 sheets, more	description, claims and/or diations this Authority
2. This REPORT CONSIST	ried by ANNEXES, i.e. sheets of the	ontaining rectifications
M This report is also acc	companied by ANNEXES, i.e. sheets of the re the basis for this report and/or sheets of Section 607 of the Administrative Instruction 15 sheets.	description, claims and/or drawings which have description, claims and/or drawings which have ontaining rectifications made before this Authority onto under the PCT).
been amended and a	Section 607 of the Admission	
(see Rule 10.11	ta total of 5 sheets.	· · · · · · · · · · · · · · · · · · ·
(see Rule 70.10 These annexes consist of	of a total -	<u> </u>
		_
	. Hawing items:	
inc in	dications relating to the following items:	
3. This report contains "	<u> </u>	y, inventive step and industrial applicability and to novelty, inventive step or industrial applicability.
	ranoll	v inventive step and industrial or
Priority	t mont of opinion with regard to hove	y, inventive step and a rd to novelty, inventive step or industrial applicability. ent
Non-esta	ablishment of invention	rd to novelty. Inventive start
IV Lack of	ed statement under Article 35(2) with regarded statement under Article 35(2) with regarded statements and explanations suporting such statements cited	ent
V S Reason	s and explanations superior	
Certair	documents cited documents cited application	A ion
VI Certain	n documents cited no defects in the international application networks in the international application no bservations on the international applications on the international applications.	Allon ———
\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	n observations on	
/ VIII = Certa		
VIII = Certai		this report

11 01 1999

19 1 there at the international 1 10

Authorized office.



5 of \$100 to 100 Fai -49 83 3379 - 4455

I make the second

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/DK98/00376

I. Basis of the report

1. This report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.):

		-F	•			
	Des	cription, pages:				
	2,4-8	3	as originally filed			
	1,3		as received on	06/07/1999	with letter of	02/07/1999
	Clai	ms, No.:				
	1-12	2	as received on	06/07/1999	with letter of	02/07/1999
	Drav	wings, sheets:				
	1/2,2/2		as originally filed			
2.	The	amendments have	e resulted in the cancellation of:			
		the description,	pages:			
		the claims,	Nos.:			
		the drawings,	sheets:			
3.		This report has be considered to go	een established as if (some of) t beyond the disclosure as filed (l	he amendme Rule 70.2(c)):	nts had not been made	e, since they have been
4.	Add	litional observation	ns, if necessary:			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/DK98/00376

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

Claims 1-12

No:

Claims

Inventive step (IS)

Yes:

Claims 1-12

No:

Claims

Industrial applicability (IA)

Yes: C

Claims 1-12

No: Claims

2. Citations and explanations

see separate sheet

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1 Reference is made to the following documents:

D1: WO-A-95/28536 D2: EP-A-0 038 222

- The subject-matter of present claim 1 is new (Article 33 (2) PCT). Document D1, which is considered to represent the most relevant state of the art, discloses (cf. figure 4 with corresponding text side 5, lines 16-21):
- 2.1 "A deformable roof flashing material comprising a sandwich construction with two outer layers (5,6) of metal foil and at least one intermediate non-adhesive layer (4) positioned between the outer layers, said material having at least in one direction a continuos waveform,"

from which the subject-matter of claim 1 differs in that:

- 2.2 "at least the intermediate layer adjacent to the outer layers is/are made from a resilient material, and in that said waveform is formed in such a manner that it maintains the mutual positioning between the outer layers and the adjacent intermediate layer by <u>friction</u>."
- 2.3 As disclosed in D1 on page 5, lines 7-15 the foils are hold together by <u>an efficient</u> <u>lock</u>, which results from the back folding at one end of the wave crests marked by ref. 8 in figure 4. The intermediate layer (7) may be non-adhesive.
- The subject-matter according to present claim 1 is based on the exercise of an inventive step in the sense of Article 33(3) PCT, since none of the documents cited in the research report indicate the solution, that the outer foils can be hold together by friction only, nor give hints which in combination could lead thereto.

INTERNATIONAL PRELIMINARY International application No. PCT/DK98/00376 EXAMINATION REPORT - SEPARATE SHEET

- The industrial applicability is also given (Article 33(4) PCT).
- Dependent claims 2-11 concern advantageous further developments of the subject-matter according to claim 1 and fulfil therefore as well the requirements of Article 33 PCT as regards novelty, inventive step and industrial applicability.
- The method for manufacturing in claim 12 also fulfils the requirements of Article 33 PCT.

A DEFORMABLE ROOF FLASHING MATERIAL AND A METHOD FOR THE MANUFACTURE OF A FLASHING RAIL WITH A SKIRT MADE FROM THE ROOF FLASHING MATERIAL

The invention relates to a deformable roof flashing material for use in connection with skylight windows and the like roof penetrating structures, said roof flashing material comprising a sandwich construction with two outer layers of metal foil and at least one intermediate non-adhesive layer positioned between the outer layers, in which the material at least in one direction has been given a continuous waveform.

Such deformable flashing materials are used for providing a water and snow tight connection between the 15 roof penetrating building structure which may be a chimney, an air shaft, a skylight window or the like, and the surrounding roofing.

Particularly in connection with corrugated roofing, such as for instance tiles, whereby, during mounting, a considerable deformation of the flashing material is required, the use of flashing materials with built-in excess of material in the form of corrugations or foldings has been proposed as a replacement for the previously used sheet lead, which admittedly has a good deformability but the use of which on the other hand is connected with problems seen from an economic and environmental point of view.

Thus, the EP Patent No. 38 222 and the international published specification no. W095/28536 disclose sandwich materials or composite materials, in which the surplus material has been provided by corrugation in waveform in one or two directions of the flashing

mounting without the risk that the layers of the sandwich constructions are displaced substantially relative to one another, which construction on the other hand, however, allows a certain relative movement of the layers and which is moreover easy and cheap in manufacture and at the same time meets the requirements to a sufficient surplus of material.

This object is met by a roof flashing material, which is characterized in that at least the intermedi10 ate layer/s adjacent to the outer layers is/are made from a resilient material, and in that said waveform is formed in such a manner that it maintains the mutual positioning between the outer layers and the adjacent intermediate layer/s by friction.

The special embodiment of waveform in combination with the resilient intermediate layer/layers causes an effective securing between the outer layers and the adjacent layers without the use of adhesive agents, which might prevent deformation of the material during adaptation to the surrounding roofing, and at the same time the single waveform establishes the desired surplus of material, the simplified manufacture and the freedom of choice in respect of the number of layers and/or the thickness thereof. Furthermore, the material has the advantage that it will be self-closing in case of cracks or ruptures.

In a preferred embodiment of the invention the waveform is made as a substantially harmonic sine curve, an optimal mechanic friction being obtained between the outer layers and the adjacent intermediate layer/layers which are at the same time allowed to remain undeformed during the working process.

Turkhan administration and administration

PATENT CLAIMS

- 1. A deformable roof flashing material for use in connection with skylight windows and the like roof penetrating structures, said roof flashing material comprising a sandwich construction with two outer layers (2, 3) of metal foil and at least one intermediate non-adhesive layer (4; 5-7) positioned between the outer layers, said material having at least in one direction a continuous waveform, c h a r a c t e r i z e d in that at least the intermediate layer/s (4; 5, 6) adjacent to the outer layers is/are made from a resilient material, and in that said waveform is formed in such a manner that it maintains the mutual positioning between the outer layers and the adjacent intermediate layer/s by friction.
 - 2. A roof flashing material according to claim 1, c h a r a c t e r i z e d in that said waveform is made as a substantially harmonic sine curve.
- 3. A roof flashing material according to claim 2, 20 c h a r a c t e r i z e d in that the degree of corrugation expressed as the ratio between the length after corrugation (Lk) and the length in the starting condition (Lu) is in the range of 0.4 to 0.8, preferably 0.55 to 0.75.
- or 3, characterial according to claim 2 or 3, characterized in that the ratio between the horizontal distance from wave crest to wave valley (Lh) and the vertical distance from wave crest to wave valley (Lv) is within the range of 0.8 to 1.2.
- 5. A roof flashing material according to any of the preceding claims, characterized in having a single resilient intermediate layer (4) made

two resilient intermediate layers (5, 6) of rubber and a metal foil layer (7) interposed between these layers.

- 7. A roof flashing material according to claim 5 or 6, c h a r a c t e r i z e d in that said rubber 5 material consists of EPDM rubber.
 - 8. A roof flashing material according to claim 5, 6 or 7, c h a r a c t e r i z e d in that each resilient rubber layer (4; 5, 6) has a thickness between 0.1 and 3.0 mm, preferably between 0.5 and 1.5 mm.
- 9. A roof flashing material according to one of the preceding claims, characterized in that the metal foil of the outer layers (2, 3) consists of aluminium, zinc or copper.
- 10. A roof flashing material according to claim 9, 15 c h a r a c t e r i z e d in that each outer layer (2, 3) has a thickness between 0.05 and 0.5 mm.
- 11. A roof flashing according to claim 9 or 10, c h a r a c t e r i z e d in that the outer layers (2, 3) consist of parts of one and the same piece of 20 material which is folded along a folding line.
 - 12. A method for the manufacture of a flashing rail with a skirt made from the roof flashing material according to any of claims 1-11, c h a r a c t e r i z e d in
- 25 conveyance of a web-shaped metal foil,
 - folding of the metal foil,
 - insertion of a rubber cloth in the folded metal foil,
 - corrugation of metal foil with rubber cloth,

and made and another the contract of the contract of the contract of

- 30 flattening of the not folded side edge of the folded metal foil for the formation of a flat flap,
 - cutting of the metal foil web in predetermined

introduction of the flat flap in a rabbet channel in a flashing rail, preferably together with a resilient, adhesive strip of for instance butyl rubber, and
 bending of the flattened flap for securing
 together the skirt and the flashing rail.